

JCWSCS 1 6 AUG 2004

**Snell & Wilmer**  
LLP  
LAW OFFICES

One Arizona Center  
Phoenix, Arizona 85004-2202  
(602) 382-6000  
Fax: (602) 382-6070  
www.swlaw.com

PHOENIX, ARIZONA

TUCSON, ARIZONA

IRVINE, CALIFORNIA

SALT LAKE CITY, UTAH

DENVER, COLORADO

152

## FACSIMILE TRANSMISSION

DATE: August 5, 2004

TIME IN:  
TIME OUT:

TO:	Name	Fax Number	Phone Number
	Office of Initial Patent Examination Commissioner for Patents	703-308-7751	703-308-1202

FROM: Daniel R. Pote

PHONE: 602-382-6325

RE: Our Docket No. 40566.0100  
U.S. Patent Application Serial No. 10/055,434

## MESSAGE:

Transmitted herewith is a Request for Correction to Filing Receipt Data with accompanying supportive documents for the captioned matter. Thank you.  
Sincerely, Daniel R. Pote, Reg. No. 43,011

ORIGINAL DOCUMENT: Will not be sent

NUMBER OF PAGES (Including Cover): 2

CONFIRMATION NO.:

CLIENT MATTER NO.: 99999.0000

PLEASE RETURN TO: Okarmus 15826

PERSONAL FAX: No

REQUESTOR:

Daniel R. Pote

DIRECT LINE:

602-382-6325

IF YOU HAVE NOT PROPERLY RECEIVED THIS TELECOPY, PLEASE CALL US AT (602) 382-6075.  
OUR FACSIMILE NUMBER IS (602) 382-6070.

THE INFORMATION CONTAINED IN THIS FACSIMILE MESSAGE IS ATTORNEY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE TO DELIVER IT TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE IMMEDIATELY NOTIFY US BY TELEPHONE, AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA THE U.S. POSTAL SERVICE. THANK YOU.

1547066

BEST AVAILABLE COPY

**CERTIFICATE OF TRANSMISSION VIA FACSIMILE PURSUANT TO 37 C.F.R. 1.6(d)**

I certify that this document is being sent via facsimile to the United States Patent And Trademark Office,  
Office Of Initial Patent Examination's filing receipt correction facsimile no. 703/746-9195, on:

Date: 8-6-04By: [Signature]

Signature of Person Depositing Facsimile

**IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE**

--PATENT

Applicants:: Chou et al.

Serial No.: 10/055,434

Filing Date: January 23, 2002

Title: PHASE-CHANGE HEAT RESERVOIR DEVICE FOR  
TRANSIENT THERMAL MANAGEMENT

Docket No.: 40566.0100

Art Unit No.: 3753

Examiner: Atkinson, C.

Confirmation No.: 7922

**REQUEST FOR CORRECTION OF FILING RECEIPT DATA**

Office of Initial Patent Examination  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Thank you for the Filing Receipt with respect to the above-identified patent application. We have noticed an error on the Filing Receipt, as explained below:

The Filing Receipt notes:

"THIS APPLN CLAIMS BENEFIT OF 60/261,055 01/13/01\*  
(\* ) Data inconsistent with PTO records."

The captioned Utility Patent Application filed with the U.S. Patent and Trademark Office on January 23, 2002 claims priority from U.S. Provisional Patent Application filed on January 26, 2001.

**BEST AVAILABLE COPY**

U.S. Serial No. 10/055,434

Enclosed in support of this Request for Correction of Filing Receipt Data are the following documents:

- A copy of the Provisional Patent Application Filing Receipt.
- A copy of the first page of the Utility Patent Application noting priority claimed.
- A copy of the Utility Patent Application Filing Receipt with the requested correction noted thereon.

With the requested correction, the Filing Receipt will agree with the U.S. utility patent application as filed. We look forward to receiving a corrected Filing Receipt for this application.

If you should have any questions, please do not hesitate to contact the undersigned at the telephone number listed below.

Respectfully submitted,

Dated: 8/5/04

By 

Daniel R. Pote, Reg. No. 43,011

Snell & Wilmer L.L.P.  
One Arizona Center  
400 E. Van Buren  
Phoenix, Arizona 85004-2202  
Phone: (602) 382-6325  
Fax: (602) 382-6070



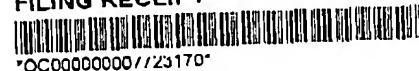
## UNITED STATES PATENT AND TRADEMARK OFFICE

 COMMISSIONER FOR PATENTS  
 UNITED STATES PATENT AND TRADEMARK OFFICE  
 WASHINGTON, D.C. 20231  
 www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/055,434	01/23/2002	3743	412	40566.0100	9	18	4

CONFIRMATION NO. 7922

## FILING RECEIPT



\*OC00000000//23170\*

Daniel R. Pote, Esq.  
 ✓ SNELL & WILMER L.L.C.  
 One Arizona Center  
 400 East Van Buren  
 Phoenix, AZ 85004-2202

Date Mailed: 03/27/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

- ✓ Der Jou Chou, Mesa, AZ;
- ✓ Daniel Todd Nelson, Cave Creek, AZ;

## Domestic Priority data as claimed by applicant

THIS APPLN CLAIMS BENEFIT OF 60/261,551 (01/23/2001)  
 (M) Data inconsistent with PTO records.

PTD RECORDS SHOULD INDICATE 01/26/01

## Foreign Applications

If Required, Foreign Filing License Granted 03/26/2002

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

✓ \*\* SMALL ENTITY \*\*

## Title

Phase-change heat reservoir device for transient thermal management

## Preliminary Class

RECEIVED

APR 2 2002

SNELL &amp; WILMER

notes for receipt; correction due 11-12-02

BEST AVAILABLE COPY

165

**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 3/0.10 (1)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is decided before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

Dec 21 01 03:16p

Enertron, Inc.

(400) 648-5434

p. 2

Page 1 of 2



UNITED STATES PATENT AND TRADEMARK OFFICE

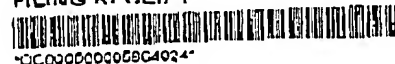
COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20590  
WWW.USPTO.GOV

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE RECD	ATTY. DOCKETING	DRAWINGS	TOT CLAIMS	IND CLAIMS
60/261,551	01/26/2001		75	ENEF:0195			

CONFIRMATION NO. 7459

23123  
SCHMEISER OLSEN & WATTS  
18 E UNIVERSITY DRIVE  
SUITE # 101  
MESA, AZ 85201

## FILING RECEIPT



RECEIVED JAN 11 1961

Date Mailed: 04/12/2001

Receipt is acknowledged of this provisional Patent Application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

**Applicant(s)**

Dor Jeou Choi, Mesa, AZ;  
Dantei Todd Nelson, Cave Creek, AZ;

If Required, Foreign Filing License Granted 04/12/2001

Projected Publication Date: N/A

Non-Publication Request: No

Early Publication Request: No

**\*\* SMALL ENTITY \*\***

**Title**

Phase change heat reservoir device for transient thermal management

Data entry by : MERSD, WOSENNE

Team : CIPE

Date: 04/12/2001

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

**BEST AVAILABLE COPY**

EXPRESS MAIL NO.: EL626415911US

**PHASE-CHANGE HEAT RESERVOIR DEVICE FOR TRANSIENT  
THERMAL MANAGEMENT***Inventors:*

Der Jeou Chou, MESA, AZ  
Daniel Todd Nelson, Cave Creek, AZ

**CROSS-REFERENCE TO RELATED APPLICATIONS**

This invention claims priority from U.S. Provisional Patent Application S/N 60/261,511, filed January 26, 2001, which is hereby incorporated by reference.

**BACKGROUND OF THE INVENTION****1. Technical Field**

The present invention relates, generally, to heat transfer systems and, more particularly, to a method of managing thermal transients through the use of phase-change heat reservoirs.

**2. Background Information**

Recent advances in the design and fabrication of electronic components has dramatically increased their speed and density but has, at the same time, led to significant challenges for thermal engineers seeking to provide heat-transfer solutions for such components. These heat transfer challenges are particularly severe in applications subject to transient heat generation.

Currently known methods of addressing transient heat generation are undesirable in a number of respects. For example, when confronted by thermal requirements of a system, thermal engineers will typically select the maximum heat load in the transient heat profile as the guideline for designing the thermal solution. This "worst-case-scenario" practice invariably results in an unnecessarily large heat sink or cooler that is not used to its full capacity during normal operation.

Furthermore, if there is a space constraint for the overall system which does not allow the full required space for a traditional thermal solution, then the engineer must increase the cooling

01-0511/0512

EL626415911US

**BEST AVAILABLE COPY**